

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NM15303
2. Name of Operator BOG Resources Inc.		6. If Indian, Allottee or Tribe Name
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 432-686-3689	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 330' FNL & 900' FEL, U/L A SHL 330' FSL & 330' FEL, U/L P BHL Sec 10, T25S, R29E		8. Well Name and No. Venado 10 Federal 1H ✓
		9. API Well No. 30-015-39015 ✓
		10. Field and Pool, or Exploratory Area Bradley Bone Spring
		11. County or Parish, State Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

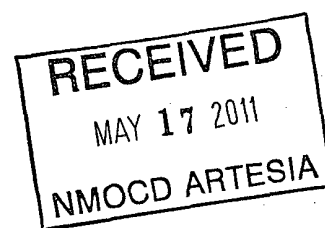
TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

BOG Resources, Inc. requests the approved APD location for our Venado 10 Federal 1H be changed to:

135' FSL & 330' FEL, U/L P, (SHL) and 330' FNL & 900' FEL, U/L A, (BHL)
Sec 10, T25S, R29E, Eddy County, NM.

Amended Surface Use Plan and Drill Plan are attached.

Accepted for record - NMOCD
D 22 5-20-11

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stan Wagner		Title Regulatory Analyst
Signature <i>Stan Wagner</i>		Date 4/26/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /s/ Don Peterson	Title FIELD MANAGER	Date MAY 11 2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

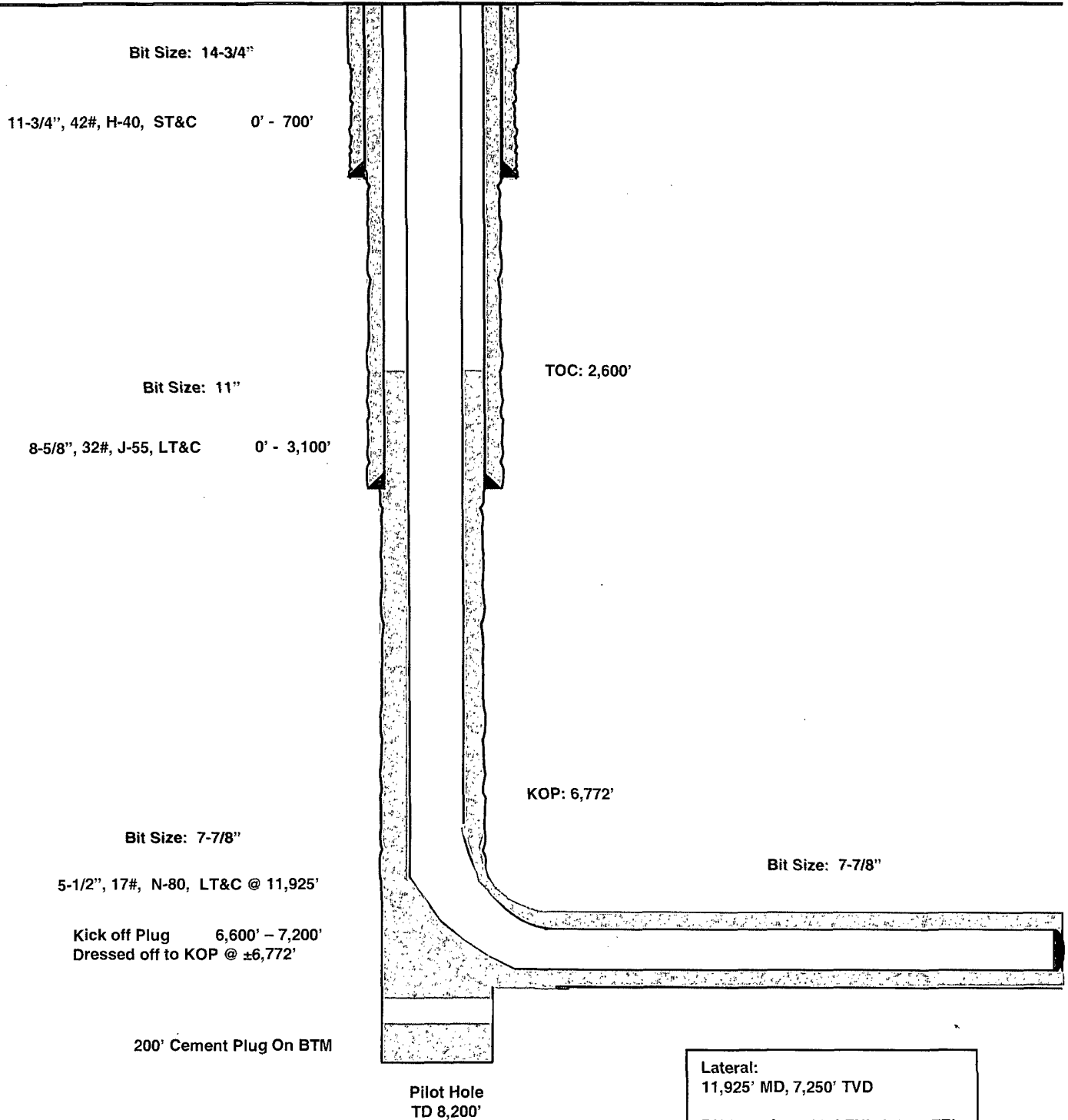
Venado 10 Federal #1H
Eddy County, New Mexico

135' FSL
330' FEL
Section 10
T-25-S, R-29-E

Proposed Wellbore

API: 30-015-*****

KB: 3,093.2'
GL: 3,063.2'



EOG RESOURCES, INC.
VENADO 10 FEDERAL NO. 1H
REVISED 4/20/11 FOR SUNDRY NOTICE

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	620'
Top of Salt	650'
Salado	1,150'
Base of Salt	2,933'
Lamar	3,133'
Bell Canyon	3,162'
Cherry Canyon	4,033'
Brushy Canyon	5,313'
Bone Spring Lime	6,905'
1 st Bone Spring Sand	7,800'
Pilot hole TD	8,200'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 620'	Fresh Water
Bell Canyon	3,162'	Oil
Cherry Canyon	4,033'	Oil
Bone Spring Lime	6,905'	Oil
1 st Bone Spring Sand	7,800'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 11.75" casing at 700' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 – 700'	11.75"	42#	H40	STC	1.125	1.25	1.60
11.00"	0-3,100'	8.625"	32#	J55	LTC	1.125	1.25	1.60
7.875"	0' - 11,925'	5.5"	17#	N80	LTC	1.125	1.25	1.60

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VENADO 10 FEDERAL NO. 1H
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Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
700'	325	14.8	1.32	Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L (TOC @ surface) (AHS = 15.75" + 25% excess)
3,100'	450	12.7	2.01	Class C + 2% SMS + 0.8% R-3 + 0.25 pps CelloFlake + 0.005 pps Static Free (TOC @ surface) (AHS = 12.15" + 25% excess)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free (TOC @ 2,500') (AHS = 12.15" + 0% excess)
BH Plug 8200'-8000'	75	18.0	0.90	Class H + 0.005 lbs/sx Static Free + 5% Salt + 1.2% CD31 + 0.005 gps FP-6L (AHS = 8.00" + 0% excess)
KO Plug 600'	250	18.0	0.90	Class H + 0.005 lbs/sx Static Free + 5% Salt + 1.2% CD31 + 0.005 gps FP-6L (AHS = 8.50" + 0% excess)
11,925'	210	10.8	3.67	60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 2,600') (AHS = 8.85" + 25% excess)
	210	11.8	2.38	50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free (TOC @ 5,200') (AHS = 8.85" + 25% excess)
	845	14.2	1.28	50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free (TOC @ 6,700') (AHS = 8.10" + 10% excess)

Cement volumes based on bit size + 25% excess.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. Prior to drilling out of the surface casing, the BOP's will be tested to 2000/250 psig. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 2500/ 250 psig.

EOG RESOURCES, INC.
VENADO 10 FEDERAL NO. 1H
REVISED 4/20/11 FOR SUNDRY NOTICE

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will not be installed prior to the setting and cementing of the intermediate casing string, but will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of fresh water and brine water, with polymer sweeps. The applicable depths and properties of this system are as follows:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 700'	Fresh - Gel	8.6-8.8	28-34	N/c
700' – 3,100'	Brine	10.0-10.2	28-34	N/c
3,100' – 8,200' Pilot hole	Cut Brine	8.4-9.0	28-34	N/c
KOP – TD Lateral	Cut Brine	9.0-9.5	28-34	N/c

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

6. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit will be continuously monitoring drill penetration rate and hydrocarbon shows from intermediate casing point to TD.
- (D) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

EOG RESOURCES, INC.
VENADO 10 FEDERAL NO. 1H
REVISED 4/20/11 FOR SUNDRY NOTICE

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logging is anticipated in the 7-7/8" hole section. The anticipated logging suites scheduled for this hole section are listed below:

NGT–CNL–LDT w/ Pe	From TD to previous casing shoe. At casing pull GR – Neutron to surface.
HR Laterolog Array	From TD to previous casing shoe.
FMI	Possible in the production hole

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 145 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3600 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EOG RESOURCES, INC.
VENADO 10 FEDERAL 1H

ATTACHMENT TO EXHIBIT #1

1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
5. All choke and fill lines to be securely anchored especially ends of choke lines.
6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
7. Kelly cock on kelly.
8. Extension wrenches and hand wheels to be properly installed.
9. Blow out preventer control to be located as close to driller's position as feasible.
10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

EXHIBIT 1

EOG Resources
Venado 10 Federal No. 1H

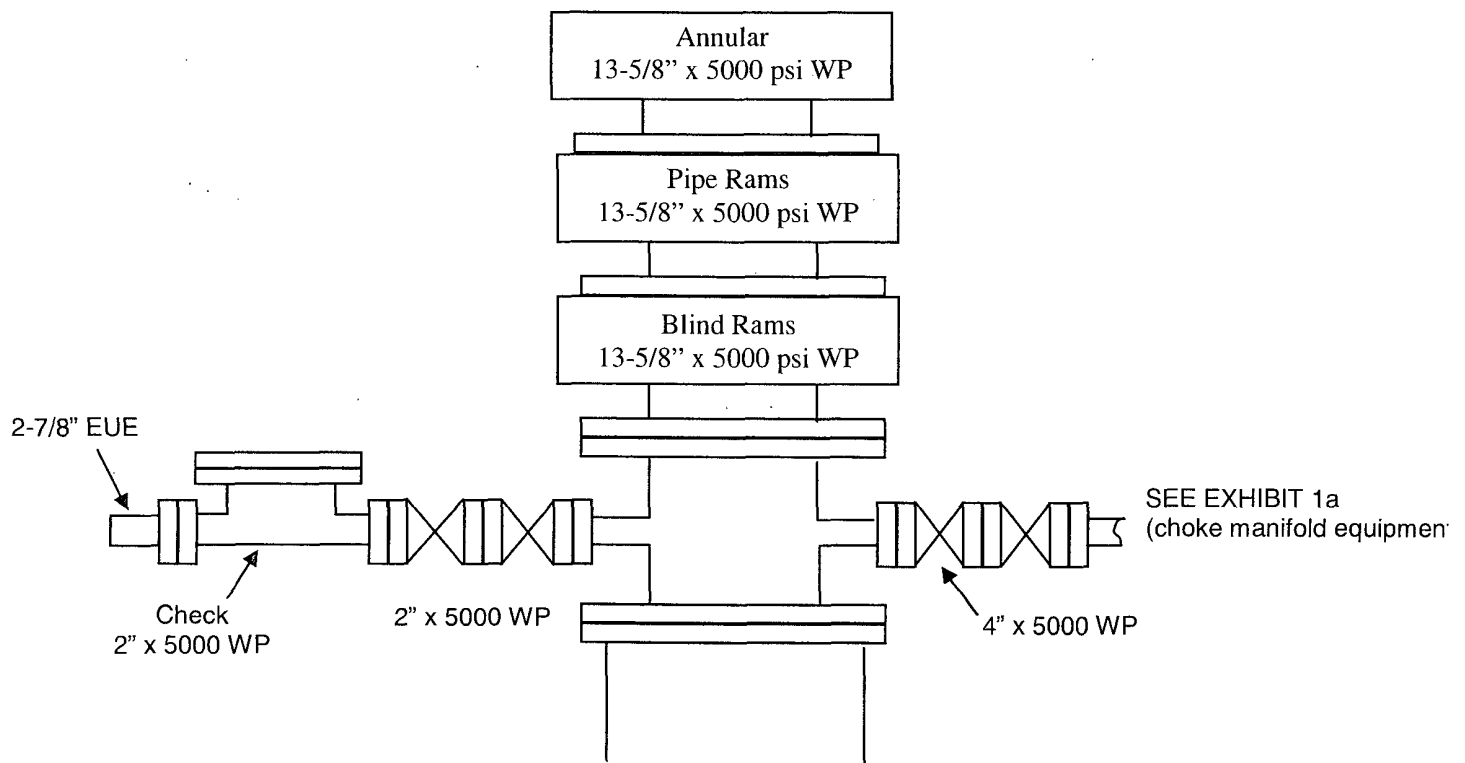
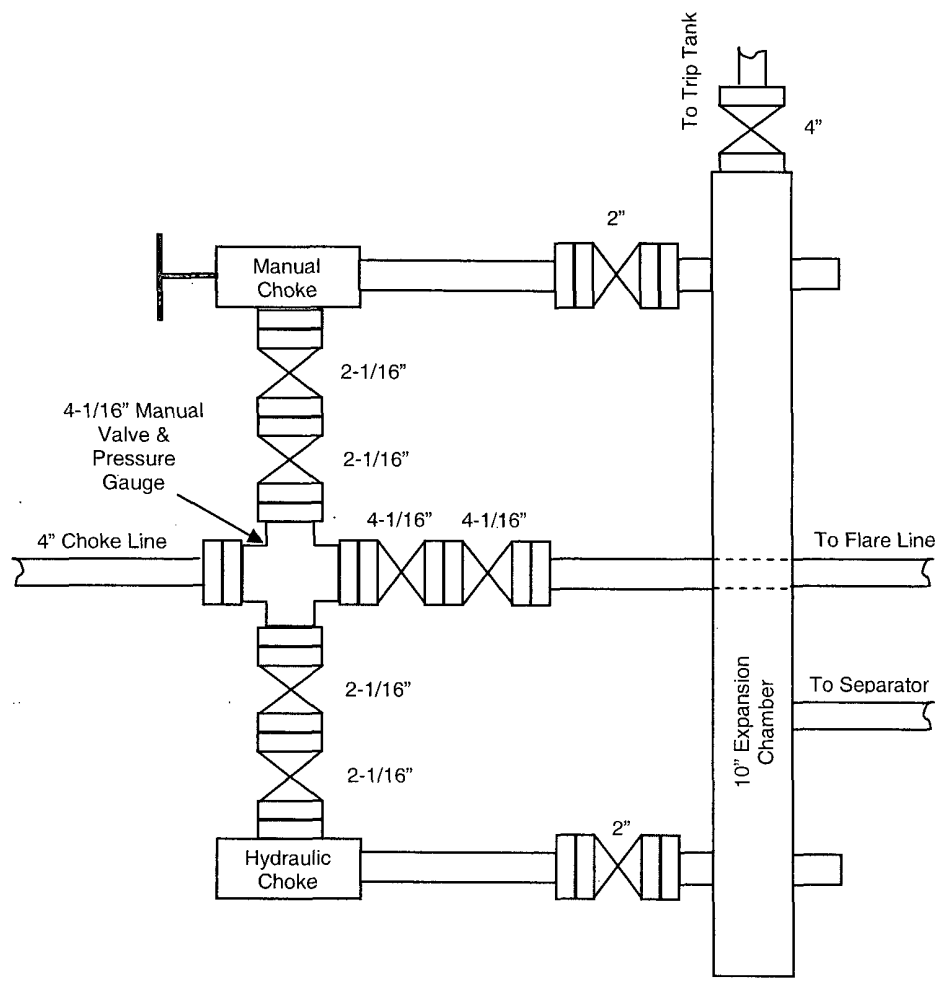
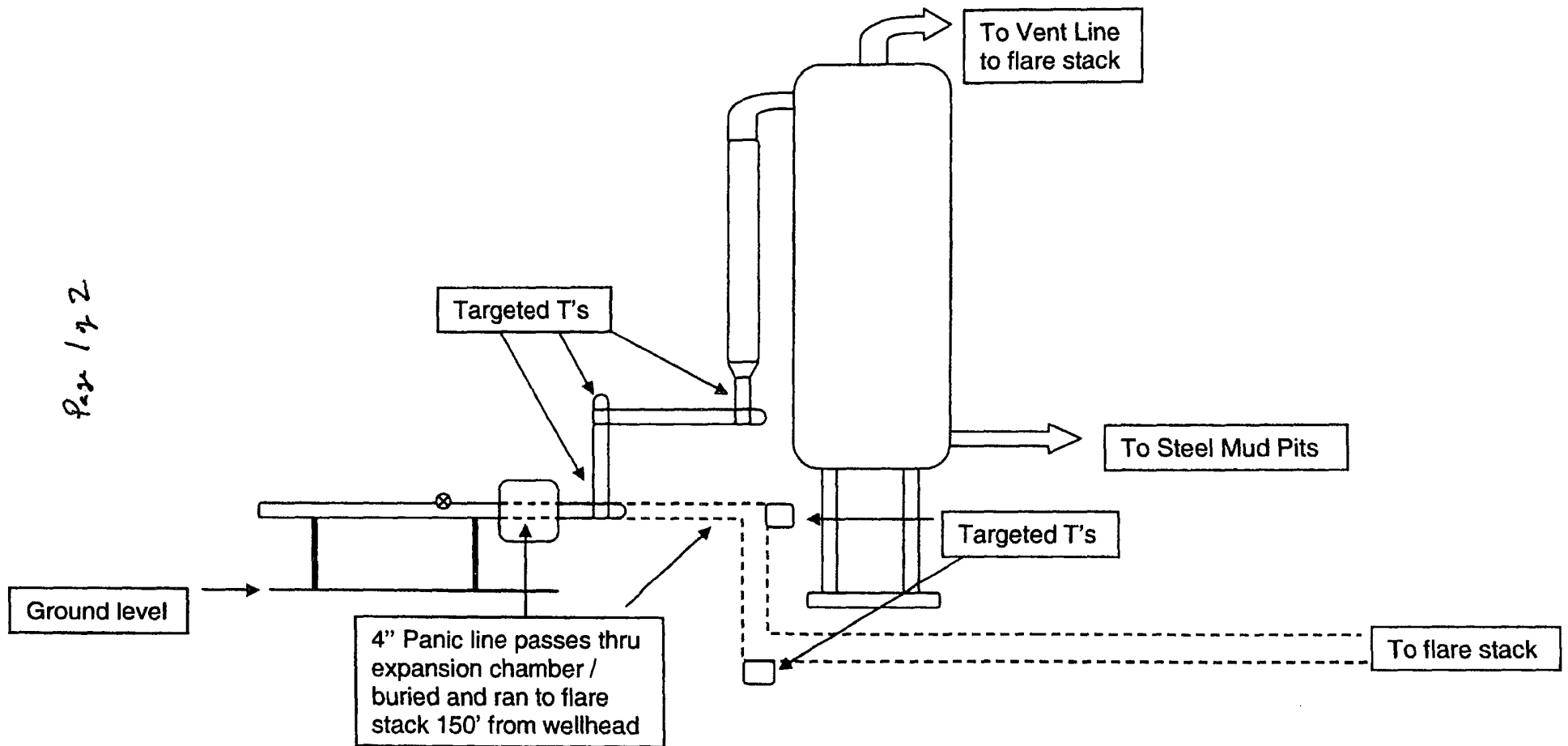


EXHIBIT 1a
EOG Resources, Inc.
5M Choke Manifold Equipment



Profile View of Piping from Choke Manifold
to the Mud Gas Separator



Page 2 of 2

Aerial View of the Piping from the Choke
Manifold to the Mud Gas Separator

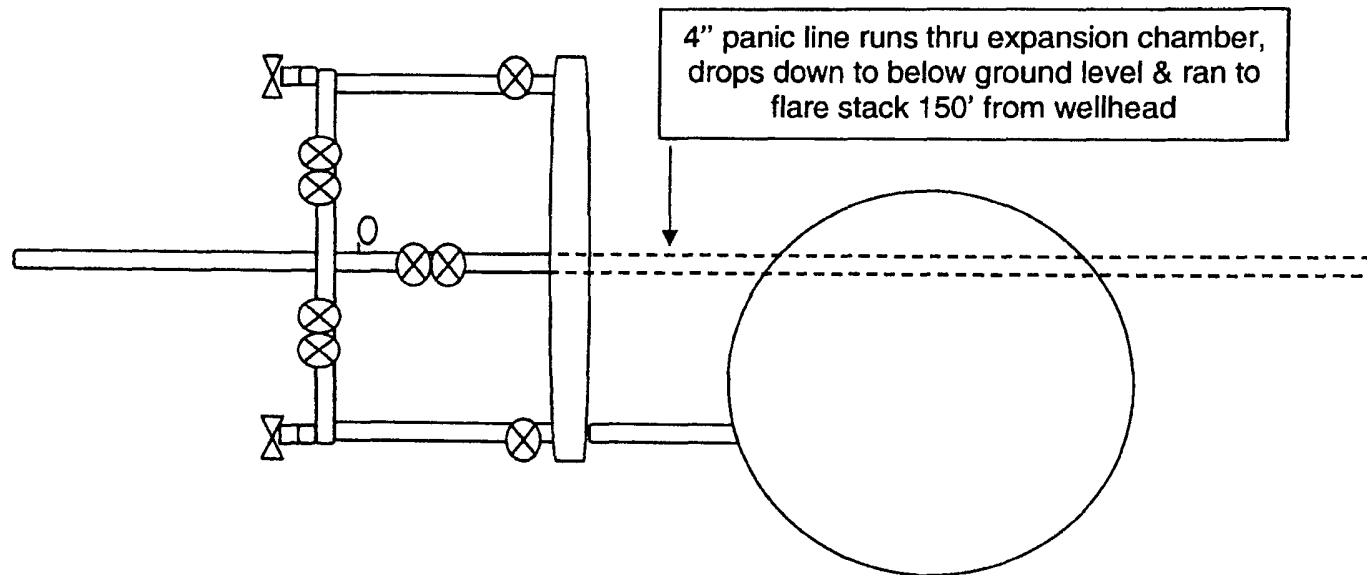
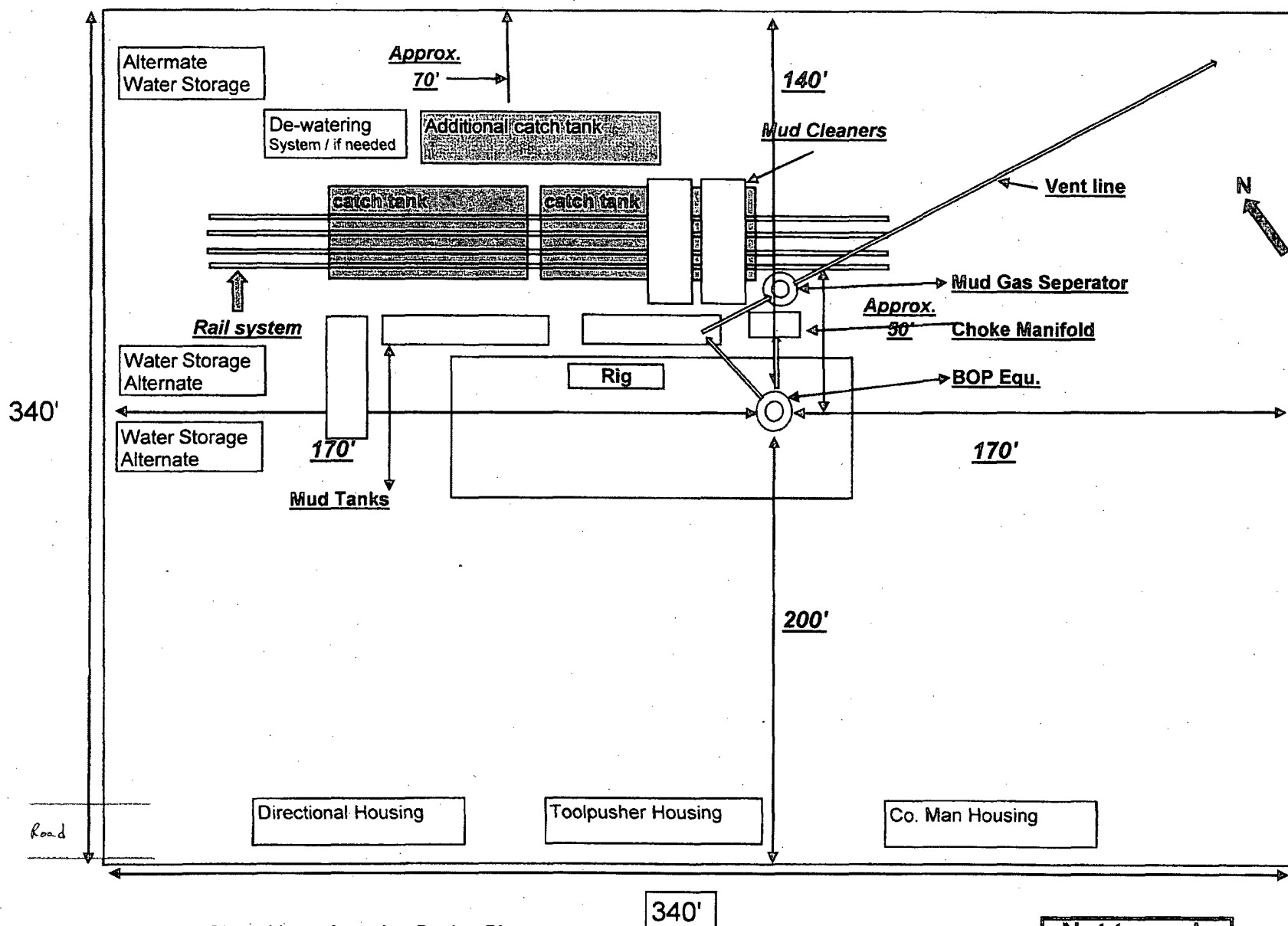


EXHIBIT 4
Venado 10 Fed Com 1H



EOG Resources / Closed Loop Location Design Plan

6/30/2008

Not to scale



EOG Resources, Inc.

Eddy County

Venado "10" Federal

#1H

OH

Plan: Plan #2

Pathfinder X & Y Planning Report

20 April, 2011

PATHFINDER
A Schlumberger Company



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	KB=19' @ 3082.20usft
Site:	Venado "10" Federal	MD Reference:	KB=19' @ 3082.20usft
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Project		Eddy County	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Venado "10" Federal					
Site Position:		Northing:	418,824.200	usft	Latitude:	32° 9' 3.355 N	
From:	Map	Easting:	613,634.100	usft	Longitude:	103° 57' 58.190 W	
Position Uncertainty:	0.00	usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.20 °

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	413,979.700 usft	Latitude:	32° 8' 15.392 N
	+E/-W	0.00 usft	Easting:	614,217.700 usft	Longitude:	103° 57' 51.594 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,063.20 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	01/31/11	7.79	60.07	48,596

Design:	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	353.13

Survey Tool Program		Date	04/20/11		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	11,924.58	Plan #2 (OH)	MWD	MWD - Standard	



Pathfinder
Pathfinder X & Y Planning Report



Company: EOG Resources, Inc.
Project: Eddy County
Site: Venado "10" Federal
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD-Reference: KB=19' @ 3082.20usft
MD-Reference: KB=19' @ 3082.20usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	3,082.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
100.00	0.00	0.00	100.00	2,982.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
200.00	0.00	0.00	200.00	2,882.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
300.00	0.00	0.00	300.00	2,782.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
400.00	0.00	0.00	400.00	2,682.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
500.00	0.00	0.00	500.00	2,582.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
600.00	0.00	0.00	600.00	2,482.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
700.00	0.00	0.00	700.00	2,382.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
800.00	0.00	0.00	800.00	2,282.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
900.00	0.00	0.00	900.00	2,182.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,000.00	0.00	0.00	1,000.00	2,082.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,100.00	0.00	0.00	1,100.00	1,982.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,200.00	0.00	0.00	1,200.00	1,882.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,300.00	0.00	0.00	1,300.00	1,782.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,400.00	0.00	0.00	1,400.00	1,682.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,500.00	0.00	0.00	1,500.00	1,582.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,600.00	0.00	0.00	1,600.00	1,482.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,700.00	0.00	0.00	1,700.00	1,382.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,800.00	0.00	0.00	1,800.00	1,282.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
1,900.00	0.00	0.00	1,900.00	1,182.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,000.00	0.00	0.00	2,000.00	1,082.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,100.00	0.00	0.00	2,100.00	982.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,200.00	0.00	0.00	2,200.00	882.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,300.00	0.00	0.00	2,300.00	782.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,400.00	0.00	0.00	2,400.00	682.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,500.00	0.00	0.00	2,500.00	582.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70
2,600.00	0.00	0.00	2,600.00	482.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	KB=19' @ 3082.20usft
Site:	Venado "10" Federal	MD Reference:	KB=19' @ 3082.20usft
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.00	0.00	0.00	2,700.00	382.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
2,800.00	0.00	0.00	2,800.00	282.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
2,900.00	0.00	0.00	2,900.00	182.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,000.00	0.00	0.00	3,000.00	82.20	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,100.00	0.00	0.00	3,100.00	-17.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,200.00	0.00	0.00	3,200.00	-117.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,300.00	0.00	0.00	3,300.00	-217.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,400.00	0.00	0.00	3,400.00	-317.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,500.00	0.00	0.00	3,500.00	-417.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,600.00	0.00	0.00	3,600.00	-517.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,700.00	0.00	0.00	3,700.00	-617.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,800.00	0.00	0.00	3,800.00	-717.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
3,900.00	0.00	0.00	3,900.00	-817.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,000.00	0.00	0.00	4,000.00	-917.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,100.00	0.00	0.00	4,100.00	-1,017.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,200.00	0.00	0.00	4,200.00	-1,117.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,300.00	0.00	0.00	4,300.00	-1,217.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,400.00	0.00	0.00	4,400.00	-1,317.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,500.00	0.00	0.00	4,500.00	-1,417.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,600.00	0.00	0.00	4,600.00	-1,517.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,700.00	0.00	0.00	4,700.00	-1,617.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,800.00	0.00	0.00	4,800.00	-1,717.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
4,900.00	0.00	0.00	4,900.00	-1,817.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
5,000.00	0.00	0.00	5,000.00	-1,917.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
5,100.00	0.00	0.00	5,100.00	-2,017.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
5,200.00	0.00	0.00	5,200.00	-2,117.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	
5,300.00	0.00	0.00	5,300.00	-2,217.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70	



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	KB=19' @ 3082.20usft
Site:	Venado "10" Federal	MD Reference:	KB=19' @ 3082.20usft
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey												
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
5,400.00	0.00	0.00	5,400.00	-2,317.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
5,500.00	0.00	0.00	5,500.00	-2,417.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
5,600.00	0.00	0.00	5,600.00	-2,517.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
5,700.00	0.00	0.00	5,700.00	-2,617.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
5,800.00	0.00	0.00	5,800.00	-2,717.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
5,900.00	0.00	0.00	5,900.00	-2,817.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,000.00	0.00	0.00	6,000.00	-2,917.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,100.00	0.00	0.00	6,100.00	-3,017.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,200.00	0.00	0.00	6,200.00	-3,117.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,300.00	0.00	0.00	6,300.00	-3,217.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,400.00	0.00	0.00	6,400.00	-3,317.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,500.00	0.00	0.00	6,500.00	-3,417.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,600.00	0.00	0.00	6,600.00	-3,517.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,700.00	0.00	0.00	6,700.00	-3,617.80	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,772.50	0.00	0.00	6,772.50	-3,690.30	0.00	0.00	0.00	0.00	413,979.70	614,217.70		
6,775.00	0.30	353.13	6,775.00	-3,692.80	0.01	0.00	0.01	12.00	413,979.71	614,217.70		
6,800.00	3.30	353.13	6,799.98	-3,717.78	0.79	-0.09	0.79	12.00	413,980.49	614,217.61		
6,825.00	6.30	353.13	6,824.89	-3,742.69	2.86	-0.34	2.88	12.00	413,982.56	614,217.36		
6,850.00	9.30	353.13	6,849.66	-3,767.46	6.23	-0.75	6.28	12.00	413,985.93	614,216.95		
6,875.00	12.30	353.13	6,874.21	-3,792.01	10.88	-1.31	10.96	12.00	413,990.58	614,216.39		
6,900.00	15.30	353.13	6,898.49	-3,816.29	16.80	-2.02	16.92	12.00	413,996.50	614,215.68		
6,925.00	18.30	353.13	6,922.42	-3,840.22	23.97	-2.89	24.15	12.00	414,003.67	614,214.81		
6,950.00	21.30	353.13	6,945.94	-3,863.74	32.38	-3.90	32.61	12.00	414,012.08	614,213.80		
6,975.00	24.30	353.13	6,968.98	-3,886.78	42.00	-5.06	42.30	12.00	414,021.70	614,212.64		
7,000.00	27.30	353.13	6,991.49	-3,909.29	52.80	-6.36	53.18	12.00	414,032.50	614,211.34		
7,025.00	30.30	353.13	7,013.40	-3,931.20	64.75	-7.80	65.22	12.00	414,044.45	614,209.90		
7,050.00	33.30	353.13	7,034.64	-3,952.44	77.83	-9.38	78.39	12.00	414,057.53	614,208.32		



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: EOG Resources, Inc.
Project: Eddy County
Site: Venado "10" Federal
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:
TVD Reference: KB=19' @ 3082.20usft
MD Reference: KB=19' @ 3082.20usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,075.00	36.30	353.13	7,055.17	-3,972.97	91.99	-11.08	92.66	12.00	414,071.69	614,206.62
7,100.00	39.30	353.13	7,074.92	-3,992.72	107.20	-12.92	107.98	12.00	414,086.90	614,204.78
7,125.00	42.30	353.13	7,093.84	-4,011.64	123.42	-14.87	124.31	12.00	414,103.12	614,202.83
7,150.00	45.30	353.13	7,111.89	-4,029.69	140.59	-16.94	141.61	12.00	414,120.29	614,200.76
7,175.00	48.30	353.13	7,129.00	-4,046.80	158.68	-19.12	159.83	12.00	414,138.38	614,198.58
7,200.00	51.30	353.13	7,145.14	-4,062.94	177.64	-21.40	178.92	12.00	414,157.34	614,196.30
7,225.00	54.30	353.13	7,160.25	-4,078.05	197.40	-23.78	198.83	12.00	414,177.10	614,193.92
7,250.00	57.30	353.13	7,174.30	-4,092.10	217.93	-26.26	219.51	12.00	414,197.63	614,191.44
7,275.00	60.30	353.13	7,187.25	-4,105.05	239.16	-28.81	240.89	12.00	414,218.86	614,188.89
7,300.00	63.30	353.13	7,199.07	-4,116.87	261.03	-31.45	262.92	12.00	414,240.73	614,186.25
7,325.00	66.30	353.13	7,209.71	-4,127.51	283.48	-34.15	285.53	12.00	414,263.18	614,183.55
7,350.00	69.29	353.13	7,219.16	-4,136.96	306.46	-36.92	308.68	12.00	414,286.16	614,180.78
7,375.00	72.29	353.13	7,227.38	-4,145.18	329.90	-39.75	332.28	12.00	414,309.60	614,177.95
7,400.00	75.29	353.13	7,234.36	-4,152.16	353.73	-42.62	356.29	12.00	414,333.43	614,175.08
7,425.00	78.29	353.13	7,240.07	-4,157.87	377.89	-45.53	380.62	12.00	414,357.59	614,172.17
7,450.00	81.29	353.13	7,244.50	-4,162.30	402.31	-48.47	405.22	12.00	414,382.01	614,169.23
7,475.00	84.29	353.13	7,247.63	-4,165.43	426.94	-51.44	430.02	12.00	414,406.64	614,166.26
7,500.00	87.29	353.13	7,249.47	-4,167.27	451.69	-54.42	454.95	12.00	414,431.39	614,163.28
7,522.56	90.00	353.13	7,250.00	-4,167.80	474.07	-57.12	477.50	12.00	414,453.77	614,160.58
7,600.00	90.00	353.13	7,250.00	-4,167.80	550.96	-66.38	554.94	0.00	414,530.66	614,151.32
7,700.00	90.00	353.13	7,250.00	-4,167.80	650.24	-78.34	654.94	0.00	414,629.94	614,139.36
7,800.00	90.00	353.13	7,250.00	-4,167.80	749.52	-90.30	754.94	0.00	414,729.22	614,127.40
7,900.00	90.00	353.13	7,250.00	-4,167.80	848.81	-102.27	854.94	0.00	414,828.51	614,115.43
8,000.00	90.00	353.13	7,250.00	-4,167.80	948.09	-114.23	954.94	0.00	414,927.79	614,103.47
8,100.00	90.00	353.13	7,250.00	-4,167.80	1,047.37	-126.19	1,054.94	0.00	415,027.07	614,091.51
8,200.00	90.00	353.13	7,250.00	-4,167.80	1,146.65	-138.15	1,154.94	0.00	415,126.35	614,079.55
8,300.00	90.00	353.13	7,250.00	-4,167.80	1,245.93	-150.11	1,254.94	0.00	415,225.63	614,067.59



Pathfinder
Pathfinder X & Y Planning Report



Company:	EOG Resources, Inc.	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County	TVD Reference:	KB=19' @ 3082.20usft
Site:	Venado "10" Federal	MD Reference:	KB=19' @ 3082.20usft
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
8,400.00	90.00	353.13	7,250.00	-4,167.80	1,345.22	-162.07	1,354.94	0.00	415,324.92	614,055.63	
8,500.00	90.00	353.13	7,250.00	-4,167.80	1,444.50	-174.04	1,454.94	0.00	415,424.20	614,043.66	
8,600.00	90.00	353.13	7,250.00	-4,167.80	1,543.78	-186.00	1,554.94	0.00	415,523.48	614,031.70	
8,700.00	90.00	353.13	7,250.00	-4,167.80	1,643.06	-197.96	1,654.94	0.00	415,622.76	614,019.74	
8,800.00	90.00	353.13	7,250.00	-4,167.80	1,742.34	-209.92	1,754.94	0.00	415,722.04	614,007.78	
8,900.00	90.00	353.13	7,250.00	-4,167.80	1,841.63	-221.88	1,854.94	0.00	415,821.33	613,995.82	
9,000.00	90.00	353.13	7,250.00	-4,167.80	1,940.91	-233.84	1,954.94	0.00	415,920.61	613,983.86	
9,100.00	90.00	353.13	7,250.00	-4,167.80	2,040.19	-245.81	2,054.94	0.00	416,019.89	613,971.89	
9,200.00	90.00	353.13	7,250.00	-4,167.80	2,139.47	-257.77	2,154.94	0.00	416,119.17	613,959.93	
9,300.00	90.00	353.13	7,250.00	-4,167.80	2,238.75	-269.73	2,254.94	0.00	416,218.45	613,947.97	
9,400.00	90.00	353.13	7,250.00	-4,167.80	2,338.04	-281.69	2,354.94	0.00	416,317.74	613,936.01	
9,500.00	90.00	353.13	7,250.00	-4,167.80	2,437.32	-293.65	2,454.94	0.00	416,417.02	613,924.05	
9,600.00	90.00	353.13	7,250.00	-4,167.80	2,536.60	-305.61	2,554.94	0.00	416,516.30	613,912.09	
9,700.00	90.00	353.13	7,250.00	-4,167.80	2,635.88	-317.58	2,654.94	0.00	416,615.58	613,900.12	
9,800.00	90.00	353.13	7,250.00	-4,167.80	2,735.16	-329.54	2,754.94	0.00	416,714.86	613,888.16	
9,900.00	90.00	353.13	7,250.00	-4,167.80	2,834.45	-341.50	2,854.94	0.00	416,814.15	613,876.20	
10,000.00	90.00	353.13	7,250.00	-4,167.80	2,933.73	-353.46	2,954.94	0.00	416,913.43	613,864.24	
10,100.00	90.00	353.13	7,250.00	-4,167.80	3,033.01	-365.42	3,054.94	0.00	417,012.71	613,852.28	
10,200.00	90.00	353.13	7,250.00	-4,167.80	3,132.29	-377.39	3,154.94	0.00	417,111.99	613,840.31	
10,300.00	90.00	353.13	7,250.00	-4,167.80	3,231.57	-389.35	3,254.94	0.00	417,211.27	613,828.35	
10,400.00	90.00	353.13	7,250.00	-4,167.80	3,330.86	-401.31	3,354.94	0.00	417,310.56	613,816.39	
10,500.00	90.00	353.13	7,250.00	-4,167.80	3,430.14	-413.27	3,454.94	0.00	417,409.84	613,804.43	
10,600.00	90.00	353.13	7,250.00	-4,167.80	3,529.42	-425.23	3,554.94	0.00	417,509.12	613,792.47	
10,700.00	90.00	353.13	7,250.00	-4,167.80	3,628.70	-437.19	3,654.94	0.00	417,608.40	613,780.51	
10,800.00	90.00	353.13	7,250.00	-4,167.80	3,727.98	-449.16	3,754.94	0.00	417,707.68	613,768.54	
10,900.00	90.00	353.13	7,250.00	-4,167.80	3,827.27	-461.12	3,854.94	0.00	417,806.97	613,756.58	
11,000.00	90.00	353.13	7,250.00	-4,167.80	3,926.55	-473.08	3,954.94	0.00	417,906.25	613,744.62	

Company: EOG Resources, Inc.
Project: Eddy County
Site: Venado "10" Federal
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #1H
TVD Reference: KB=19' @ 3082.20usft
MD Reference: KB=19' @ 3082.20usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
11,100.00	90.00	353.13	7,250.00	-4,167.80	4,025.83	-485.04	4,054.94	0.00	418,005.53	613,732.66
11,200.00	90.00	353.13	7,250.00	-4,167.80	4,125.11	-497.00	4,154.94	0.00	418,104.81	613,720.70
11,300.00	90.00	353.13	7,250.00	-4,167.80	4,224.39	-508.96	4,254.94	0.00	418,204.09	613,708.74
11,400.00	90.00	353.13	7,250.00	-4,167.80	4,323.68	-520.93	4,354.94	0.00	418,303.38	613,696.77
11,500.00	90.00	353.13	7,250.00	-4,167.80	4,422.96	-532.89	4,454.94	0.00	418,402.66	613,684.81
11,600.00	90.00	353.13	7,250.00	-4,167.80	4,522.24	-544.85	4,554.94	0.00	418,501.94	613,672.85
11,700.00	90.00	353.13	7,250.00	-4,167.80	4,621.52	-556.81	4,654.94	0.00	418,601.22	613,660.89
11,800.00	90.00	353.13	7,250.00	-4,167.80	4,720.80	-568.77	4,754.94	0.00	418,700.50	613,648.93
11,900.00	90.00	353.13	7,250.00	-4,167.80	4,820.09	-580.73	4,854.94	0.00	418,799.79	613,636.97
11,924.58	90.00	353.13	7,250.00	-4,167.80	4,844.49	-583.67	4,879.53	0.00	418,824.19	613,634.03

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,772.50	6,772.50	0.00	0.00	KOP-6772.50'MD,0.00°INC,0.00°AZI,6772.50'TVD
7,522.56	7,250.00	474.07	-57.12	EOC-7522.56'MD,90.00°INC,353.13°AZI,7250.00'TVD
11,924.58	7,250.00	4,844.49	-583.67	TD at 11924.58

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County
 Site: Venado "10" Federal
 Well: #1H
 Wellbore: OH
 Plan: Plan #2 (#1H/OH)



Azimuths to Grid North
 True North: -0.20°
 Magnetic North: 7.60°
 Magnetic Field
 Strength: 48595.6snT
 Dip Angle: 60.07°
 Date: 01/31/2011
 Model: IGRF200510

PATHFINDER
 A Schlumberger Company

WELL DETAILS: #1H						
Ground Elevation: 3063.20						
RKB Elevation: KB=19' @ 3082.20usft						
Rig Name:						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	413979.700	614217.700	32° 8' 15.392 N	103° 57' 51.594 W	

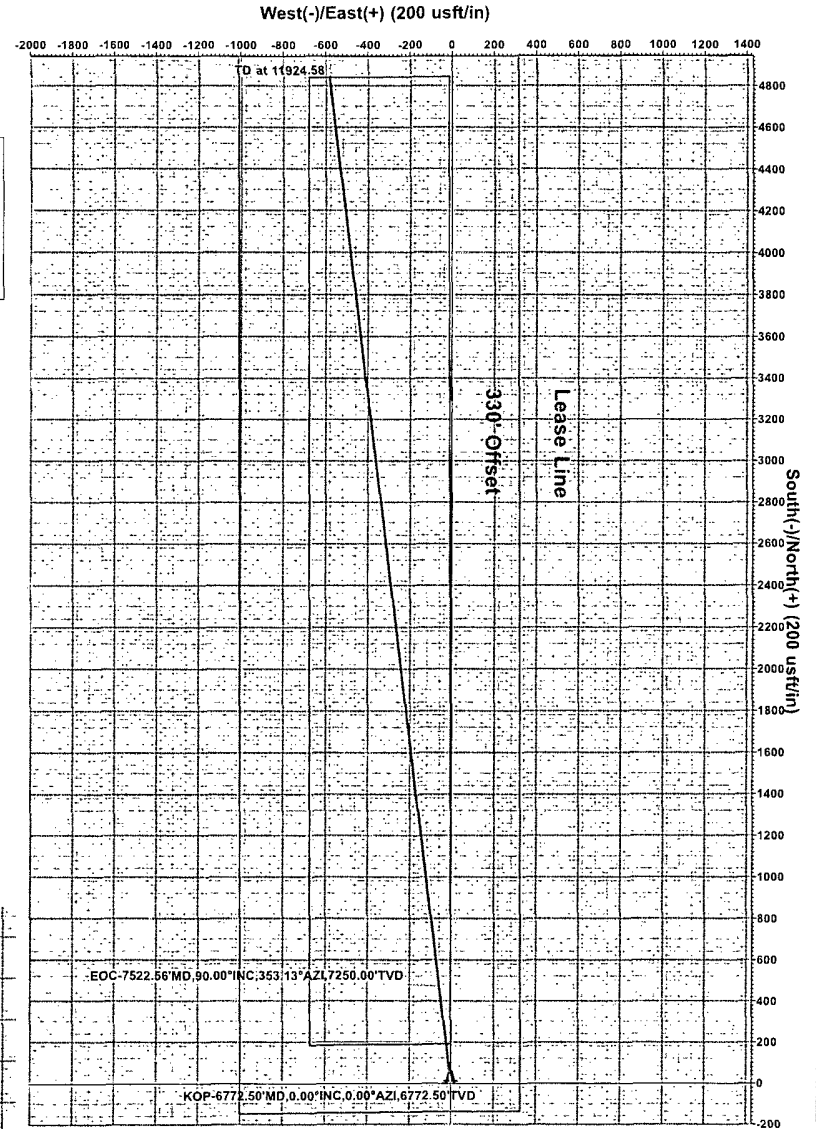
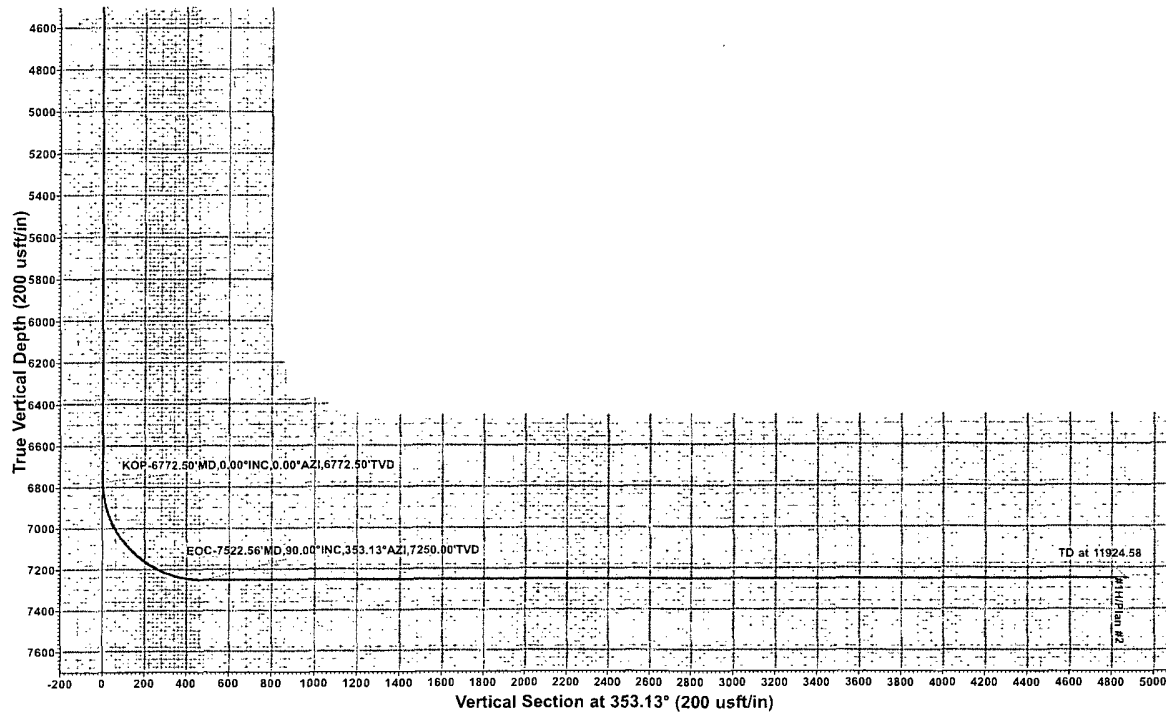
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6772.50	0.00	0.00	6772.50	0.00	0.00	0.00	0.00	0.00	
7522.56	90.00	353.13	7250.00	474.07	-57.12	12.00	353.13	477.50	
11924.58	90.00	353.13	7250.00	4844.49	-583.67	0.00	0.00	4879.53	PBHL(VF#1)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL(VF#1)	7250.00	4844.50	-583.60	418824.200	613634.100	Point

PROJECT DETAILS: Eddy County
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid

LEGEND

• Plan #2



Plan: Plan #2 (#1H/OH)

Created By: Nate Bingham Date: 14:10, April 20 2011

Checked: _____ Date: _____